EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(Hamada or Mabuchi or Kano or Azuma).in. and fuel adj injector and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:19
L2	10	(Hamada or Mabuchi or Kano or Azuma).in. and fuel with inject$3 and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:19
L3	8	(Hamada or Mabuchi or Kano or Azuma).in. and fuel with (injector or valve) and "surface roughness" and hardness and thickness	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:20
L4	1	(fuel with (injector or valve) and "surface roughness" and hardness and thickness).clm.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:20
L5	1850	123/467-470.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:21
L6	0	5 and coat$3 and hardness and roughness and thickness and fuel adj injector	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/30 11:22
S1	13	US-5843571-$.DID. OR US-5466431-$.DID. OR US-5190824-$.DID. OR US-4783368-$.DID. OR US-4755426-$.DID. OR US-5205188-$.DID. OR US-5077990-$.DID. OR US-4554208-$.DID. OR US-6237441-$.DID. OR US-5249554-$.DID. OR US-5237967-$.DID. OR US-4974498-$.DID. OR US-6715693-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 06:02
S2	13	S1 and(roughness or hardness or carbon)	US-PGPUB; USPAT	OR	OFF	2006/01/30 07:47
S3	1	S1 and(roughness or carbon) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 07:51
S4	1	S1 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:09

S5	28	US-6468642-$.DID. OR US-6205291-$.DID. OR US-6822788-$.DID. OR US-6592519-$.DID. OR US-6572935-$.DID. OR US-6666328-$.DID. OR US-6338881-$.DID. OR US-6626949-$.DID. OR US-6882094-$.DID. OR US-5461648-$.DID. OR US-5299937-$.DID. OR US-6543394-$.DID. OR US-6439845-$.DID. OR US-6666671-$.DID. OR US-6273793-$.DID. OR US-5458754-$.DID. OR US-4988421-$.DID. OR US-6296552-$.DID. OR US-5927897-$.DID. OR US-4980021-$.DID. OR US-6880469-$.DID. OR US-6638569-$.DID. OR US-6572937-$.DID. OR US-6494881-$.DID. OR US-6385987-$.DID. OR US-6358123-$.DID. OR US-6309283-$.DID. OR US-6305416-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:38
S6	0	S5 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:05
S7	34	US-6139964-$.DID. OR US-6016000-$.DID. OR US-5947710-$.DID. OR US-5901021-$.DID. OR US-5881444-$.DID. OR US-5824387-$.DID. OR US-5255783-$.DID. OR US-5187021-$.DID. OR US-4992082-$.DID. OR US-6855791-$.DID. OR US-6820676-$.DID. OR US-6761736-$.DID. OR US-6753635-$.DID. OR US-6733513-$.DID. OR US-6695865-$.DID. OR US-6656329-$.DID. OR US-6557968-$.DID. OR US-6537310-$.DID. OR US-6386468-$.DID. OR US-6379383-$.DID. OR US-6377422-$.DID. OR US-6367705-$.DID. OR US-6289593-$.DID. OR US-6190514-$.DID. OR US-6006415-$.DID. OR US-5992268-$.DID. OR US-5976707-$.DID. OR US-5975686-$.DID. OR US-5968596-$.DID. OR US-5945214-$.DID. OR US-5940975-$.DID. OR US-5799549-$.DID. OR US-5529815-$.DID. OR US-5443032-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:35
S8	0	S7 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:35
S9	27	US-5401543-$.DID. OR US-5332348-$.DID. OR US-5036211-$.DID. OR US-6890700-$.DID. OR US-6878447-$.DID. OR US-6872203-$.DID. OR US-6871700-$.DID. OR US-6865952-$.DID. OR US-6861137-$.DID. OR US-6861098-$.DID. OR US-6855237-$.DID. OR US-6849085-$.DID. OR US-0200401-$.DID. OR US-0200401-$.DID. OR US-2004001-$.DID. OR US-6821189-$.DID. OR US-6818029-$.DID. OR US-6799468-$.DID. OR US-6797326-$.DID. OR US-6780177-$.DID. OR US-6753042-$.DID. OR US-6749033-$.DID. OR US-6739214-$.DID. OR US-6729527-$.DID. OR US-6729350-$.DID. OR US-6701627-$.DID. OR US-6699106-$.DID. OR US-6684759-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:40
S10	0	S9 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:41

S11	22	-$.DID. OR US-6645354-$.DID. OR US-6637528-$.DID. OR US-6601662-$.DID. OR US-6592985-$.DID. OR US-6589640-$.DID. OR US-6586069-$.DID. OR US-6585064-$.DID. OR US-6572651-$.DID. OR US-6570172-$.DID. OR US-6562462-$.DID. OR US-6544308-$.DID. OR US-6537429-$.DID. OR US-6471979-$.DID. OR US-6452752-$.DID. OR US-6439986-$.DID. OR US-6401058-$.DID. OR US-6399215-$.DID. OR US-6368676-$.DID. OR US-6340245-$.DID. OR US-6324060-$.DID. OR US-6322431-$.DID. OR US-6316734-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:41
S12	0	S11 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:42
S13	34	"DID." OR US-6203651-$.DID. OR US-6197428-$.DID. OR US-6197120-$.DID. OR US-6173913-$.DID. OR US-6160683-$.DID. OR US-6159558-$.DID. OR US-6156439-$.DID. OR US-6145608-$.DID. OR US-6124198-$.DID. OR US-6106919-$.DID. OR US-6099541-$.DID. OR US-6083313-$.DID. OR US-6071597-$.DID. OR US-6059830-$.DID. OR US-6051298-$.DID. OR US-6028393-$.DID. OR US-6023979-$.DID. OR US-6015597-$.DID. OR US-5993938-$.DID. OR US-5967250-$.DID. OR US-5958261-$.DID. OR US-5952102-$.DID. OR US-5910940-$.DID. OR US-5834708-$.DID. OR US-5806557-$.DID. OR US-5793390-$.DID. OR US-5790146-$.DID. OR US-5723207-$.DID. OR US-5707409-$.DID. OR US-5672054-$.DID. OR US-5653300-$.DID. OR US-5630275-$.DID. OR US-5619889-$.DID. OR US-5593719-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 09:42
S14	1	S13 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:01
S15	22	US-5568391-$.DID. OR US-5547716-$.DID. OR US-5516729-$.DID. OR US-5509841-$.DID. OR US-5479069-$.DID. OR US-5464667-$.DID. OR US-5433977-$.DID. OR US-0380196-$.DID. OR US-5358402-$.DID. OR US-5349265-$.DID. OR US-5334306-$.DID. OR US-5317938-$.DID. OR US-5232568-$.DID. OR US-5190807-$.DID. OR US-5142785-$.DID. OR US-5132587-$.DID. OR US-5087608-$.DID. OR US-5078848-$.DID. OR US-5000541-$.DID. OR US-4980610-$.DID. OR US-4943345-$.DID. OR US-6887585-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:01
S16	0	S15 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:02

S17	21	8-$.DID. OR US-6629906-$.DID. OR US-6883476-$.DID. OR US-2716972-$.DID. OR US-2982733-$.DID. OR US-3790315-$.DID. OR US-3846162-$.DID. OR US-3932228-$.DID. OR US-4031023-$.DID. OR US-4538929-$.DID. OR US-4645610-$.DID. OR US-4712982-$.DID. OR US-4834400-$.DID. OR US-4842755-$.DID. OR US-4960643-$.DID. OR US-5143634-$.DID. OR US-5148780-$.DID. OR US-5202156-$.DID. OR US-5326488-$.DID. OR US-5630953-$.DID. OR US-5719109-$.DID. OR US-5735769-$.DID. OR US-577J817-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:02
S18	0	S17 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:03
S19	30	US-5851962-$.DID. OR US-5937812-$.DID. OR US-5960762-$.DID. OR US-6056443-$.DID. OR US-6059460-$.DID. OR US-6083570-$.DID. OR US-6095690-$.DID. OR US-6142481-$.DID. OR US-6170156-$.DID. OR US-6193906-$.DID. OR US-6322719-$.DID. OR US-6325385-$.DID. OR US-6333298-$.DID. OR US-6523456-$.DID. OR US-6524212-$.DID. OR US-6543394-$.DID. OR US-6553957-$.DID. OR US-6562445-$.DID. OR US-6726993-$.DID. OR US-6739238-$.DID. OR US-6740393-$.DID. OR US-6745742-$.DID. OR US-6806242-$.DID. OR US-6886521-$.DID. OR US-6893720-$.DID. OR US-6329328-$.DID. OR US-6207625-$.DID. OR US-5482602-$.DID. OR US-5127314-$.DID. OR US-6299425-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:03
S20	0	S19 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:04
S21	36	"." OR US-5032243-$.DID. OR US-5295305-$.DID. OR US-5205305-$.DID. OR US-5497550-$.DID. OR US-5669144-$.DID. OR US-6684513-$.DID. OR US-6866894-$.DID. OR US-5040501-$.DID. OR US-5067826-$.DID. OR US-5284394-$.DID. OR US-5714202-$.DID. OR US-6099976-$.DID. OR US-5096352-$.DID. OR US-5288556-$.DID. OR US-5456406-$.DID. OR US-5462772-$.DID. OR US-5616372-$.DID. OR US-5688557-$.DID. OR US-5740941-$.DID. OR US-5786038-$.DID. OR US-5794801-$.DID. OR US-6165616-$.DID. OR US-4367130-$.DID. OR US-4385880-$.DID. OR US-4702808-$.DID. OR US-4859493-$.DID. OR US-4874596-$.DID. OR US-5021628-$.DID. OR US-5552675-$.DID. OR US-5628881-$.DID. OR US-5871805-$.DID. OR US-4755237-$.DID. OR US-5255929-$.DID. OR US-5360227-$.DID. OR US-5866195-$.DID. OR US-6969198-$.DID.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:04
S22	0	S21 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08
S23	10	("20040242435" or "20050005892" or "20050084390" or "20050089685" or "20050100701" or "20050064196" or "20050025975" or "20050056241" or "20050082139" or "20050188942").pn.	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08

S24	0	S23 and carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:08
S25	120	carbon and (roughness or (thickness and hardness)) and fuel adj injector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:10
S26	13	S25 and hard with carbon	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/30 10:10
S27	0	(hamada or mabuchi or kano).inv. and fuel adj injector and carbon and (roughness or thickness)	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:35
S28	36	(hamada or mabuchi or kano).inv. and fuel adj injector	US-PGPUB; USPAT	OR	OFF	2006/01/30 10:35
S29	8728	123/467;239/533.11,533.20,585.5,591;428/469,408.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:25
S30	1741	S29 and carbon with coat$3	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:26
S31	8	S30 and fuel adj injector	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 09:29
S32	15	(US-20030084882-$ or US-20030089343-$ or US-20040045636-$ or US-20040129313-$).did. or (US-6213075-$ or US-6482476-$ or US-6145763-$ or US-6367439-$ or US-6679231-$ or US-6752332-$ or US-6860255-$ or US-5771873-$ or US-4992187-$ or US-6156439-$ or US-6715693-$).did.	US-PGPUB; USPAT	OR	OFF	2006/08/11 10:49
S33	4	S32 and additive$1	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:50
S34	4	S32 and additive$1 and fuel	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:52
S35	4	S34 and (octane or cetane or antioxident or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:56
S36	12	S32 and (additive$1 or octane or cetane or antioxident or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/08/11 10:59

S37	5351	engine and fuel and additive$1 and (ester or amine) and (octane or cetane or antioxident or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S38	422	S37 and fuel adj injector$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S39	6	S38 and (hard or diamond)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:07
S40	6	S38 and (hard or diamond or diamond-like)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19
S41	2587	engine and fuel and additive$1 and (ester and amine) and (octane or cetane or antioxident or deactivator or detergent or deicing or corrosion)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:18
S42	249	S41 and fuel adj injector$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19

S43	1	S42 and (hard or diamond or diamond-like)with carbon	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/08/11 11:19
S44	1	"5008732".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 09:55
S45	1	"5008732".pn. and hard adj carbon and carbon with hydrogen adj atoms	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/29 09:55
S46	1	"5527596".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/19 11:28

10/30/2008 11:22:46 AM
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